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PPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/600,115	06/20/2003		John S. Doleac	99-881C1	9783
25537	7590	10/20/2006		EXAMINER	
VERIZON PATENT M		MENT GROUP	FLEURANTIN, JEAN B		
		USE ROAD	ART UNIT	PAPER NUMBER	
SUITE 500				2162	. •
ARLINGTO	ON, VA	22201-2909		DATE MAILED: 10/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Antique Commence		10/600,115	DOLEAC ET AL.					
	Office Action Summary	Examiner	Art Unit					
		JEAN B. FLEURANTIN	2162					
Period fo	The MAILING DATE of this communication Reply	n appears on the cover sheet wi	th the correspondence address					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPORTED IN THE MAILING IN THE MAILIN	NG DATE OF THIS COMMUNION (FR 1.136(a). In no event, however, may a ron. period will apply and will expire SIX (6) MON statute, cause the application to become AE	CATION. eply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).					
Status								
1) 又	Responsive to communication(s) filed on	09 August 2006.						
′		This action is non-final.						
3)	. ,——							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 28-66 is/are pending in the appli	cation.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>28-66</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction a	and/or election requirement.						
Applicati	on Papers							
9)[The specification is objected to by the Exa	miner.						
10)	The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.					
	Applicant may not request that any objection to	o the drawing(s) be held in abeyar	ce. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the c	orrection is required if the drawing	s) is objected to. See 37 CFR 1.121	(d).				
11)	The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119	•						
	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority documents.	manta haya haan ragaiyad						
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	3. Copies of the certified copies of the		· · · · · · · · · · · · · · · · · · ·					
	application from the International B	•	· · · · · · · · · · · · · · · · · · ·					
* 5	See the attached detailed Office action for		received.					
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Attachmen	t(s)							
	e of References Cited (PTO-892)	4) Interview S	iummary (PTO-413)					
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO/SB/08)	5) Motice of Ir	s)/Mail Date Iformal Patent Application					
rape	r No(s)/Mail Date	6) 🔲 Other:	_ ·					

DETAILED ACTION

Response to Amendment

1. This is in response to Applicant(s) arguments submitted on 8/09/06.

The following is the current status of claim(s):

Claims 1-27 have been canceled.

Claims 28-66 remains pending for examination.

The Terminal Disclaimer filed on 8/17/06 has been entered and considered.

The document(s) (Power Attorney) submitted on 8/14/06 has(have) been entered and considered.

Response to Applicant' Remarks

Applicant's arguments filed 8/09/06 have been fully considered but they are not persuasive for the following reasons I (rejection maintained and repeated below) and section II (response to argument).

Claim Rejections - 35 USC § 101

١. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-4, 11-12, 15 and 16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As set forth in MPEP 2106:

Products may be either machines, manufactures, or compositions of matter. A machine is "a concrete thing, consisting of parts or of certain devices and combinations of devices." Burr v. Duryee, 68 U.S. (1 Wall.) 531, 570 (1863). As per claim 28-36 and 46-54,

Claims 28-36 and 46-54, the method, program and system as recited in the claims, in view of the above cited MPEP section is not statutory, because "providing first switch commands generated by a first system; generating a subset of said first switch commands generated by said first system; providing data used by a second system to generate second switch commands; and determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset" the claims lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail to fall within a statutory category. They are, at best, functional descriptive material per se.

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." Both types of "descriptive material" are nonstatutory when claimed as descriptive material *per se*, 33 F.3d at 1360, 31 USPQ2d at 1759. When functional descriptive material is recorded on some computer-readable medium, it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare *In re Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994). Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier signal, does not make it statutory. See *Diehr*, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in *Benson* were unpatentable as abstract ideas because "[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer.").

10/600,115 Art Unit: 2162

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 28-30, 32, 36-39, 41, 45-48, 50 and 54-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cornell et al., US Pat. No. 4,599,490 ("Cornell") in view of Rekieta et al., US Pat. No. 6,230,164 ("Rekieta").

As per claims 28, 37 and 46, Cornell substantially discloses "a method executed in a computer system of verifying generated commands" (i.e., group of commands is exchanged between the telecommunication switch and the telecommunication control complex; see col. 3, lines 50-53), the method comprising:

"providing first switch commands generated by a first system" (i.e., telecommunication switch controller adapted to generate and receive the primitive commands; see col. 4, lines 2-15);

"generating a subset of said first switch commands generated by said first system" (i.e., telecommunication switches being connected to subsets of said pluralities of first communication link; see col. 23, lines 59-65); and

"providing data used by a second system to generate second switch commands" (i.e., second telecommunication switch connects to controller to provide inters witch links (second switch); see col. 17, line 51 to col. 18, line 10). Cornell fails to explicitly disclose determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset. However, Rekieta discloses determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset (see Rekieta col. 4.

Page 5

lines 38-50). It would have been obvious to a person of ordinary skill in the art at the time the invention

was made to modify the teachings of Cornell with determining whether said data used by said second

system corresponds to first switch commands included in said subset, wherein a correspondence

between said data and said first commands is indicative of the second system being capable of

generating at least one second switch command equivalent to first switch command including in said

subset as disclosed by Rekieta (see Rekieta Fig. 1a). Such a modification would allow the teachings of

Cornell to improve the accuracy and the reliability of the method for analyzing the quality of

telecommunications switch command tables, and to provide an efficient system for modifying the GTTs

associated with various subsystems in the AIN (see Rekieta col. 17, lines 54-55).

As per claims 29, 38 and 47, Cornell substantially disclose "the actual commands are

successfully executed commands" (i.e., the use of such primitive commands permits any modern

program-controlled telecommunication switch to be readily adapted to communicate in a standard way

with and to be responsive to commands from a telecommunication control complex; see col. 3, lines

54-59).

As per claims 30, 39 and 48, the limitations of claims 30, 39 and 48 are rejected in the analysis of

claim 1, and these claims are rejected on that basis.

As per claims 32, 41 and 50, in addition to claim 1, Cornell further discloses "determining a list of

switch identifiers" (i.e., an identity code associated with a telecommunication unit from the

telecommunication network; see col. 2, lines 63-66). Cornell fails to explicitly disclose said second system

into at least one hash table. However, Rekieta discloses said second system into at least one hash table

(see Rekieta col. 9, lines 34-36). It would have been obvious to a person of ordinary skill in the art at the

time the invention was made to modify the teachings of Cornell with said second system into at least one

hash table as disclosed by Rekieta (see Rekieta Fig. 2). Such a modification would allow the teachings of

10/600,115 Art Unit: 2162

Cornell to improve the accuracy and the reliability of the method for analyzing the quality of

telecommunications switch command tables, and to provide an efficient system for modifying the GTTs

associated with various subsystems in the AIN (see Rekieta col. 17, lines 54-55).

As per claims 36, 45 and 54, Cornell discloses "said data used by said second system are stored

in a database used by said second system, and wherein said data include at least one command

parameters and programs used to generate second switch commands" (see col. 17, line 51 to col. 18, line

6).

As per claims 55, 59 and 63, Cornell substantially discloses "a method of verifying switch

commands for telecommunication network" (i.e., group of commands is exchanged between the

telecommunication switch and the telecommunication control complex; see col. 3, lines 50-53), the

method comprising:

"obtaining from a first system executable switch commands for telecommunications network" (i.e.,

telecommunication switch controller adapted to generate and receive the primitive commands; see col. 4,

lines 2-15);

"providing data used by a second system to generate second executable switch commands for

the telecommunications network" (i.e., second telecommunication switch connects to controller to provide

inters witch links (second switch); see col. 17, line 51 to col. 18, line 10); and

"comparing the first executable switch commands with the data used by the second system" (i.e.,

telecommunication switches being connected to subsets of said pluralities of second communication link;

see col. 23, lines 59-65). Cornell fails to explicitly disclose based on the match between a first executable

switch commands and the data used by the second system, identifying the matched first executable

command as being coded by data used by the second system to generate a second executable switch

command telecommunication network. However, Rekieta discloses based on the match between a first

executable switch commands and the data used by the second system, identifying the matched first

10/600,115 Art Unit: 2162

executable command as being coded by data used by the second system to generate a second

executable switch command telecommunication network (see Rekieta col. 4, lines 38-50). It would have

been obvious to a person of ordinary skill in the art at the time the invention was made to modify the

teachings of Cornell with based on the match between a first executable switch commands and the data

used by the second system, identifying the matched first executable command as being coded by data

used by the second system to generate a second executable switch command telecommunication

network as disclosed by Rekieta (see Rekieta Fig. 1a). Such a modification would allow the teachings of

Cornell to improve the accuracy and the reliability of the method for analyzing the quality of

telecommunications switch command tables, and to provide an efficient system for modifying the GTTs

associated with various subsystems in the AIN (see Rekieta col. 17, lines 54-55).

As per claims 56, 60 and 64, in addition to claim 1, Cornell further discloses "means for recording

at least one portion of the first executable switch commands in a log file, the at least one portion based on

the switch type" (see col. 22, lines 45-54). Cornell fails to explicitly disclose said a hash table. However,

Rekieta discloses a hash table (see Rekieta col. 9, lines 34-36). It would have been obvious to a person

of ordinary skill in the art at the time the invention was made to modify the teachings of Cornell with a

hash table as disclosed by Rekieta (see Rekieta Fig. 2). Such a modification would allow the teachings of

Cornell to improve the accuracy and the reliability of the method for analyzing the quality of

telecommunications switch command tables, and to provide an efficient system for modifying the GTTs

associated with various subsystems in the AIN (see Rekieta col. 17, lines 54-55).

As per claims 57, 61 and 65, the limitations of claims 57, 61 and 65 are rejected in the analysis of

claims 1 and 56, and these claims are rejected on that basis.

As per claims 58, 62 and 66, Cornell discloses "the at least one character includes at least one of

a null character, a comma, and a blank character" (see col. 14, lines 60-66).

Allowable Subject Matter

Page 8

Claims 31, 33-35, 40, 42-44, 49 and 51-53 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

II. The submission of the Terminal Disclaimer has overcome the double patenting rejection(s) of claims 28-66. Thus, the rejection(s) has (have) been withdrawn.

Applicant stated that "As conceded by the first Official Action, Cornell does not teach or suggest determining whether data used by a second system corresponds to first switch commands included in a subset of such commands, where correspondence is indicative of the second system being capable of generating second switch command(s) equivalent to a first switch command included in the subset." It is noted that the Office action clearly states "Cornell fails to explicitly disclose determining ... subset." Thus arguments are moot.

Further, the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). Thus, It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the system of Cornell by determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset as disclosed by Rekieta (see Rekieta Fig. 1a). Such a modification would allow the system of Cornell to provide an efficient system for modifying the GTTs associated with various subsystems in

10/600,115 Art Unit: 2162

the AIN (see Rekieta col. 17, lines 54-55), therefore, improving the accuracy and the reliability of the method for analyzing the quality of telecommunications switch command tables.

In response to applicant's argument, page 4, last two paragraphs, that "neither Cornell nor Rekieta, taken individually or in combination, teach or suggest at least the determining step of independent claim 28." The examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Cornell fails to explicitly disclose determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset. However, Rekieta discloses determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset (see Rekieta col. 4, lines 38-50). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the system of Cornell by determining whether said data used by said second system corresponds to first switch commands included in said subset, wherein a correspondence between said data and said first commands is indicative of the second system being capable of generating at least one second switch command equivalent to first switch command including in said subset as disclosed by Rekieta (see Rekieta Fig. 1a). Such a modification would allow the system of Cornell to provide an efficient system for modifying the GTTs associated with various subsystems in the AIN (see Rekieta col. 17, lines 54-55), therefore, improving the accuracy and the reliability of the method for analyzing the quality of telecommunications switch command tables.

Application/Control Number: 10/600,115

Art Unit: 2162

Applicant stated that neither Cornell nor Rekieta, taken individually or in combination, teach or suggest "comparing first executable switch commands with data used by a second system to generate second executable switch commands" It is noted that Cornell discloses a switch controller sending a first primitive command, including identification data, and then the control complex generates a second command associating with incoming call; see Cornell col. 4, lines 1-30, thus, Cornell discloses the claimed limitations. Therefore, the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

MPEP 2111: During patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification" Applicant always has the opportunity to amend the claims during prosecussion and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 162 USPQ 541,550-51 (CCPA 1969). The court found that applicant was advocating ... the impermissible importation of subject matter from the specification into the claim. See also In re Morris, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997) (The court held that the PTO is not required, in the course of prosecution, to interpret claims in applications in the same manner as a court would interpret claims in an infringement suit. Rather, the "PTO applies to verbiage of the proposed claims the broadest reasonable meaning of the words in their ordinary usage as they would be understood by one of ordinary skill in the art, taking into account whatever enlightenment by way of definition or otherwise that may be afforded by the written description contained in application's specification.").

The broadest reasonable interpretation of the claims must also be consistent with the interpretation that those skilled in the art would reach. In re Cortright, 165 F.3d 1353, 1359, 49 USPQ2d 1464, 1468 (Fed. Cir. 1999).

10/600,115 Art Unit: 2162 Page 11

CONTACT INFORMATION

2. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to JEAN B. FLEURANTIN whose telephone number is 571 - 272-4035. The examiner can

normally be reached on 7:05 to 4:35.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

JOHN E BREENE can be reached on 571 – 272-4107. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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at 866-217-9197 (toll-free).

Jean Bolte Éleurantin

Patent Examiner

Technology Center 2100

October 11, 2006

JOHN BREENE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100